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CHECKLIST  
of the  
MOSSES  
of  
NEW YORK  
STATE

By  
EDWIN H. KETCHLEDGE  
*Temporary Museum Expert*  
*New York State Museum and Science Service*

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NEW YORK STATE MUSEUM

BULLETIN NUMBER 363

*The University of the State of New York*  
*The State Education Department*

Albany, N. Y.

November 1957

Cover Illustration: The drawing of *Fissidens taxifolius*, a widespread species in New York State, was prepared by Theodore C. Bain of Schenectady, New York.

# CHECKLIST OF THE MOSSES OF NEW YORK STATE

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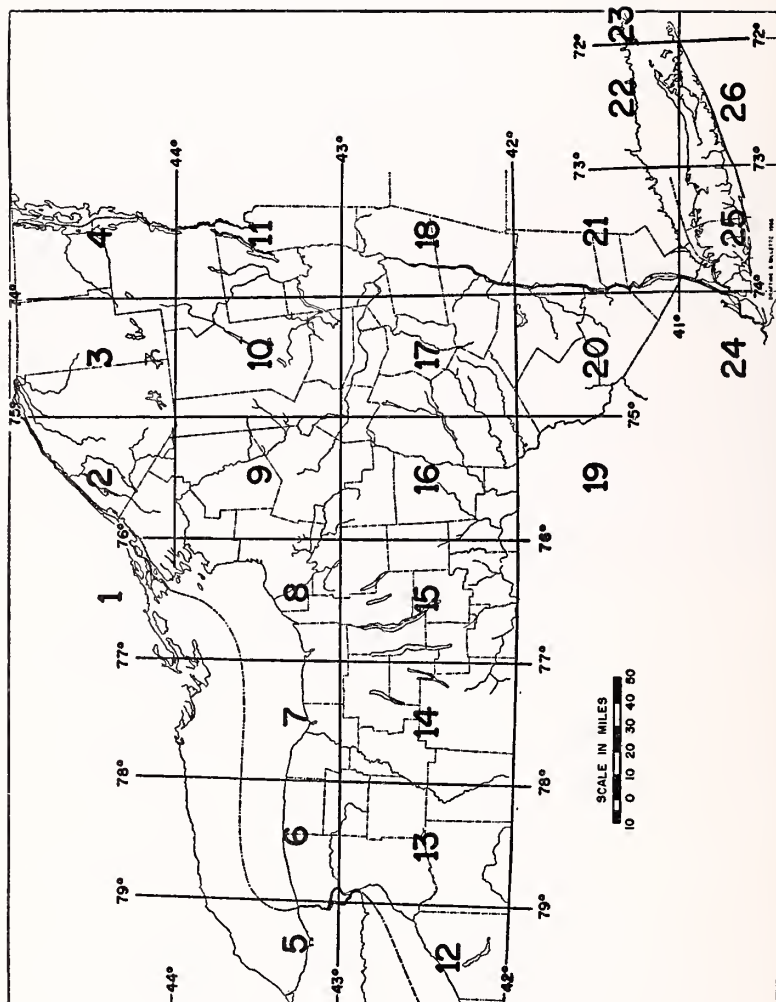
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## PREFACE

In accordance with the duty of the New York State Museum and Science Service to study the living organisms of the State and to report their natural history, it is proposed to issue a series of checklists on various biota occurring in New York. These checklists will report the taxonomic composition of each group and will indicate the distribution of the component members within the State. It is hoped that the checklists will encourage interested persons to aid in the biological exploration of poorly known districts. Such participation by all concerned is essential to the preparation of adequate floras and faunas for New York State.

This is the first of such checklists. It represents the first accounting of the mosses of the State since 1866.

WILLIAM N. FENTON  
*Assistant Commissioner for  
State Museum and Science Service*





# CHECKLIST OF THE MOSSES OF NEW YORK STATE

By

EDWIN H. KETCHLEDGE

*Temporary Museum Expert*

*New York State Museum and Science Service\**

## INTRODUCTION

This checklist of the mosses of New York State is a progress report summarizing present knowledge of the distribution of mosses within New York. It serves as a forerunner to a State Moss Flora and is presented now with the hope of stimulating latent bryological interest among fellow botanists and students of New York vegetation.

The present study began in 1949 as a joint project of the author and the Botany Section of the State Museum. Through the agency of the Graduate Student Honorarium program established by the State Science Service, the author initiated a survey of the moss flora of the Adirondack region. Following two summers of fieldwork and after a systematic review of botanical literature, a preliminary list of mosses was prepared, reporting 320 species, excepting the genus *Sphagnum*, from northern New York. In 1951, the study was expanded to include the entire State. On continued field and herbarium research, likewise sponsored by the Honorarium program, it was revealed that slightly over 400 species of true mosses occur in New York. During the ensuing four years, approximately eight thousand specimens were examined and hundreds of stations added to the catalog of State mosses.

The known moss flora of New York State consists of 3 orders, 45 families, 147 genera, 439 species and 61 varieties. This is a larger number of species than that reported thus far for any other political division in the United States. Within the State, mosses vary greatly in abundance and frequency. Many species exhibit wide ecological amplitude and are relatively common in all sections of the State: thus, *Mnium cuspidatum* and *Ceratodon purpureus* occur in all 26 districts. Numerous other species appear in New York solely as outliers of subtropical or arctic ranges. For example, *Aulacomnium turgidum*, a weedy species of arctic regions, is known in New York only from Mount Marcy and *Pogonatum brachyphyllum*, a subtropical Coastal

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\* Assistant Professor of Forest Botany, State University of New York College of Forestry at Syracuse University.

Plain species, occurs only at Orient, Long Island. The majority of New York mosses, however, are boreal or Temperate Zone species and occur abundantly in the State; their apparent absence from various districts reflects, for the most part, the lack of sufficient fieldwork in those sections of New York, rather than poverty of the moss flora itself.

The distribution-districts used in the checklist are based on "square" degrees of latitude and longitude and are numbered consecutively beginning in the northwest corner of the State (see map, frontispiece). The following symbols indicate the presence of species and varieties in the districts:

- X specimens seen and examined
- L authentic literature reports
- M personal communications from monographers
- V district approximate
- ? specimen reported, but locality questioned

One taxon,\* typical *Fontinalis antipyretica*, is reported for New York by Welch (personal communication), but the exact locations of the stations are unknown.

To date, the investigation reveals 4,035 district records for New York mosses, distributed among the districts as follows:

District :	1	7	12	19	From 1 to 50 species and varieties		
District :	2	5	8	23	From 51 to 100 species and varieties		
District :	6	14	16	21	22	26	From 101 to 150 species and varieties
District :	3	9	24	From 151 to 200 species and varieties			
District :	10	13	20	25	From 201 to 250 species and varieties		
District :	4	11	15	17	18	From 251 to 300 species and varieties	

In the checklist, families are, in general, arranged according to Brotherus in *Die natürlichen Pflanzenfamilien*, Ed. 2, 1924-25; within families, the genera, species and varieties appear alphabetically. Taxonomy of the *Sphagnales* follows Andrews in *North American Flora*, v. 15, pt. 1, 1913. For the most part, taxonomy of the *Andreaeales* and *Bryales* agrees with *Moss Flora of North America, North of Mexico*, Grout *et al.*, 1928-40. Binomials differing from those of the floras are designated by an asterisk and may be found listed with the corresponding flora name at the end of the checklist proper.

Wherever consistent with sound taxonomic practice, properly described varieties have been maintained throughout the checklist, with minor exceptions. Taxonomic validity of these entities will be more

\* A taxon is a taxonomic category of any rank.

thoroughly reviewed in a forthcoming flora, now in preparation. For the time being, however, three new combinations must be proposed, albeit reluctantly, in order to incorporate three varieties in the checklist. The combinations are as follows:

*Eurhynchium pulchellum* var. *scabrisetum* (Grout) *comb. nov.*

*Eurhynchium strigosum* var. *scabrisetum* Grout, Bull. Torr. Bot. Club 25: 241. 1898.

*Hypnum lindbergii* var. *demissum* (Schimp.) *comb. nov.*

*Hypnum arcuatum* var. *demissum* Schimp., Syn. (Ed. 2) 758. 1876.

*Hypnum lindbergii* var. *elatum* (Schimp.) *comb. nov.*

*Hypnum arcuatum* var. *elatum* Schimp., *loc. cit.*

Throughout the course of the investigation, the author received gratifying assistance and advice from a number of colleagues and fellow bryologists. Dr. William C. Steere, professor of botany and dean of the Graduate Division, Stanford University, aided the author in many determinations and was a constant source of personal and professional guidance. Dr. Howard A. Crum, curator of the Cryptogamic Herbarium, National Museum of Canada, Ottawa, likewise served both as friend and professional counselor. Dr. A. LeRoy Andrews, dean of American bryologists and authority on *Sphagnum*, has kindly consented to the inclusion of his determinations of New York State specimens in the checklist; no other records are cited for this genus.

Mr. Roy Latham, Orient, New York, made his personal collection available at this time, greatly augmenting knowledge of the moss flora of Long Island. The author also owes a debt of gratitude to Stanley Jay Smith, curator of botany of the New York State Museum and Science Service; without his unfailing support, assistance on field trips and help in the preparation of the checklist, this study would not now be ready.

From time to time, the author has enlisted the aid of various specialists and monographers and wishes now to acknowledge their many kindnesses, including identifications, especially of A. LeRoy Andrews, professor emeritus of German, and honorary curator of the bryological collection in the Wiegand Herbarium of Cornell University, Ithaca (*Sphagnaceae*, *Bryaceae* and *Mniaceae*); Geneva Sayre, chairman of the Department of Biology, Russell Sage College, Troy (*Grimmiaceae*, *Aulacomniaceae* and *Timmiaceae*); Winona H. Welch, professor of botany, DePauw University, Greencastle, Indiana

(*Fontinalaceae*), and William T. Winne, professor of biology, Union College, Schenectady (aquatic mosses).

The directors and staffs of several herbaria kindly placed materials and facilities at the author's disposal during the study, for which he is deeply grateful; these include the New York Botanical Garden, the Buffalo Museum of Natural Science, Cornell University, State University of New York College of Forestry at Syracuse University, Union College, University of Michigan and Stanford University. Acknowledgments would not be complete without a special note of thanks to the director and staff members of the New York State Museum and Science Service, especially E. C. Ogden, State botanist. They, from the beginning, encouraged the study and rendered both financial and logistic support.

It is hoped that publication of this checklist will stimulate bryologists and other botanists and naturalists to collect mosses, particularly in those districts which have been poorly explored bryologically. Specimens, properly labeled with collection data (habitat, locality and date of collection) may be sent to the State Herbarium, New York State Museum and Science Service, Albany. The staff there will see that they are verified or identified by competent authorities.

[illegible]

		DISTRICTS (See Map)																									
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
SPHAGNALES SPHAGNACEAE																											
Sphagnum—(Continued)																											
magellanicum Brid.		X	X				X	X	X	X	X	X	X	X	X	X	X	X	X	X					X	X	
palustre L.		X	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X				X	X	X	
papillosum Lindb.		X	X	X			X				X					X								X	X	X	
plumulosum Röhl.		X	X	X			X				X												X	X		X	
v. flavicomans (Card.) Andrews							X				X															X	
pulchrum (Lindb.) Warnst.										X																	
pylaesii Brid.		X	X				X	X		X																	
quinquefarium (Lindb.) Warnst.		X	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X			X	X	X	X	
recurvum Beauv.							X	X	X	X	X	X	X	X	X	X	X	X	X	X			X	X	X	X	
v. tenue H. Klinggr.								X	X	X	X	X	X	X	X	X	X	X	X	X							
robustum (Russow) Röhl.				X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X						X	
squarrosus Crome		X	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X			X	X	X	X	
subsecundum Nees.				X	X				X	X	X	X	X	X	X	X	X	X	X	X			X	X	X	X	
tabulare Sull.																						X	X			X	
tenellum Pers.				X																							
tenerum Sull. & Lesq.				X	X		X	X																			
teres (Schimp.) Ängstr.			X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X						X	
warnstorffianum DuRoi*		X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X							
wulfianum Girg.		X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X							



		DISTRICTS (See Map)																									
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
ANDREAEALES ANDREAEACEAE																											
Andreaea							X				X	X	X	X			X				X					X	
<i>rothii</i> Web. & Mohr																											
<i>v. crassinervia</i> (Bruch) Mönkem.					X																						
<i>rupestris</i> Hedw.		X	X	X					X	X	X						X	X								X	
<i>v. alpestris</i> (Thed.) Sharp					?																						
BRYALES FISSIDENTACEAE																											
Fissidens																											
<i>adiantoides</i> Hedw.		X	X	X	X		X		X	X	X	X	X	X	X		L	X	X		X					X	X
<i>bryoides</i> Hedw.										X	X	X	X	X	X		X	X	X		X						
<i>v. incurvus</i> (Stark ex Web. & Mohr) Huben																		X	X							X	
<i>cristatus</i> Wils.			X	X	X		X		X	X	X						X	X	X		X					X	
<i>debilis</i> Schwaegr. *		X					X		X	X		X	X					X	X		X					X	
<i>exiguus</i> Sull.										X	X	X	X					X									
<i>exilis</i> Hedw. *						X		X	X	X		?	X	X	X	X	X		X								
<i>grandifrons</i> Brid.																	X										
<i>hallianus</i> (Sull. & Lesq.) Mitt.																									X	X	
<i>minutus</i> Sull.		X							X	X		L	X	X	X		X	X	X		X				X	X	
<i>obtusifolius</i> Wils.																											
<i>osmundioides</i> Hedw.		X	X						X	X	X	X	X	X	X		X	X	X		X					X	

	DISTRICTS (See Map)																									
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
BRYALES																										
FISSIDENTACEAE																										
Fissidens—(Continued)																										
subbasilaris Hedw.....									X		X	X	X	X	X	X	X	X	X	X					X	X
taxifolius Hedw.....	X				L	X		X	X		L	X	X	X	X	X	X	X	X	X	X				X	X
viridulus (Web. & Mohr) Wahlenb.....															X											
ARCHIDIACEAE																										
Archidium																										
alternifolium (Hedw.) Schimp.....																					X					V
ohioense Schimp.....																										
DITRICHACEAE																										
Bruchia																										
flexuosa (Sw.) C. Müll.....																		X						L		X
sullivantii Aust.....																										
Ceratodon																										
purpureus (Hedw.) Brid.....	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Distichium																										
capillaceum (Hedw.) B. S. G.....			X	X							?									?						
Ditrichum																										
lineare (Sw.) Lindb.....			X						X	X	X	L					X			X	X	X	X	X	X	X





	DISTRICTS (See Map)																									
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
DICRANACEAE																										
Arctoa																										
blyttii (B. S. G.) Grout.....			X	X							?															
fulvella (Dicks.) B. S. G.....			X																							
starkei (Web. & Mohr) Grout.....			X	X																						
Dichodontium																										
pellucidum (Hedw.) Schimp. ....			X	X	X						L			X		V										
Dicranella																										
cerviculata (Hedw.) Schimp.....																										? X
heteromalla (Hedw.) Schimp. ....	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
v. orthocarpa (Hedw.) Paris.....				L					X	L	X	L												X	X	X
rufescens (Smith) Schimp.....									X	X	X			X	X	X	X	X	X	X						
schrebertiana (Hedw.) Schimp.*.....				X					X			L		X										X	X	
subulata (Hedw.) Schimp.....				V																X						
varia (Hedw.) Schimp.....				X		X	X			X	X	X	X	X	X	X	X	X	X	X				X	X	
Dicranodontium																										
denudatum (Brid.) E. G. Britt.....				X					X		X									X						
Dicranoweisia																										
crispula (Hedw.) Lindb.....				X																						
Dicranum																										
bergeri Bland.....				X					X		X							X	X		L	X				X
bonjeanii De Not.....				X							L			X				X	X		X					
condensatum Hedw.....	X																					X		X	X	X



	DISTRICTS (See Map)																									
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
DICRANACEAE																										
Rhabdoweisia denticulata (Brid.) B. S. G..... v. americana Culman <i>in</i> Grout.....			X	X	X				X	X	X	X	X	X	X	X	X	X	X	X						
LEUCOBRYACEAE																										
Leucobryum albidum (Brid.) Lindb..... glaucum (Hedw.) Schimp.....	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CALYMPERACEAE																										
Syrrophodon floridanus Sull..... texanus Sull.....																									L	L
ENCALYPTACEAE																										
Encalypta ciliata Hedw..... v. microstoma Schimp..... streptocarpa Hedw.....	X		X	V	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X					L













	DISTRICTS (See Map)																									
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
SPLACHNACEAE																										
Splachnum											X															
ampullaceum Hedw.....			X																							
rubrum Hedw.....			X																							
Tetraplodon																										
angustatus (Hedw.) B. S. G.....					X													X								
mnioides (Hedw.) B. S. G.....					X						X							X								
SCHISTOSTEGACEAE																										
Schistostega																										
pennata (Hedw.) Hook. & Tayl.....			X	X						X									X		X					
TETRAPHIDACEAE																										
Tetraphis																										
pellucida Hedw..	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Tetrodontium																										
brownianum (Dicks.) Schwaegr.*					X																					
BRYACEAE																										
Bryum																										
alpinum With.....											X	X	X	X	X											
angustirete Kindb.*					L					X	X	X	X	X	X						X	X				





## DISTRICTS (See Map)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	
DISTRICTS (See Map)																											









		DISTRICTS (See Map)																									
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
FONTINALACEAE																											
Fontinalis																											
antipyretica Hedw.....																											
v. gigantea Sull.....		X	X	X								X	X								X	X			X	X	
dalecarlica B. S. G.....				X	X		X					L	L			X				X	X					X	
disticha Hook. & Wils. in Drumm.....																											
duriaei Schimp.....		X					X					X	X	X			X				X	X					X
hypnoides Hartm.....													V														
lescurei Sull.....												X	X	X			X			X	X			X	X		X
novae-angliae Sull.....							X					X	X	X			X			X	X			X	X		X
v. cymbifolia (Aust.) Welch.....					X																						
v. groutii Welch.....																											
v. latifolia Card.....							X					X				X				X							L
sullivantii Lindb.....												L										X					L
CLIMACIACEAE																											
Climacium																											
acuminatum Warnst.*.....													L												X	L	
americanum Brid.....	X			X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X
v. kindbergii Ren. & Card.*.....												X	X	X	X	X	X	X	X	X	X		X	X	X	X	X
dendroides (Hedw.) Web. & Mohr.....		X	X	X			X				X	X	X	X	X	X	X	X	X	X	X						



	DISTRICTS (See Map)																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
NECKERACEAE																				
<i>Porotrichum alleghaniense</i> (C. Müll.) Grout.....	X			X	X						X	X	X	X		X	X	X	X	
LEMBOPHYLLACEAE																				
<i>Pseudisothecium myosuroides</i> (Hedw.) Grout.....														X						
THELIACEAE																				
<i>Myurelia julacea</i> (Schwaegr.) B. S. G.....			X	X				X			X	X	X	X		L	X	X	X	
<i>sibirica</i> (C. Müll.) Reim.* .....			X	X							X	X	X	X			X	X	X	
<i>Thelia asprella</i> Sull.....						X		X			X	X	X	X		X	X	X	X	
<i>v. lescurii</i> (Sull.) Habeeb*.....											X	X	X	X	*	X	X	X	X	
<i>hirtella</i> (Hedw.) Sull.....						X						X	X	X	X	X	X	X	X	
FABRONIACEAE																				
<i>Anacamptodon splachnoides</i> (Froehl.) Brid.....			X	X							X	X	X	X		X	X	X	X	
<i>Schwetschkeopsis denticulata</i> (Sull.) Broth.....											?				?				X	X







		DISTRICTS (See Map)																										
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	
AMBLYSTEGIACEAE																												
Calliergonella																												
cuspidata (Brid.) Loeske		X	X	X			X		X	X	X	X	L	X		X	X	X				X	L		X	X		
Campyllum																												
chrysophyllum (Brid.) Bryhn		X	X	X			X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	L	X	
hispidulum (Brid.) Mitt.		X		X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
polygamum (B. S. G.) Bryhn							X				X			X	X	X	V	X	X	X	X					V		
radicale (Palis.) Grout					L						X		V	V	X	X	X	X	X	X	X	L		X	X	X		
stellatum (Hedw.) Lange & C. Jens.						X	X	X	X	X	V	X	X	X	X	X	X	X	X	X	X							
v. protensum (Brid.) Röhl.																												
Cratoneuron																												
commutatum (Hedw.) Roth						L	X		X	X	X	?	X	X	X	X	X	X	X						X	X	X	
filicinum (Hedw.) Roth					X		X	X	X	X	X	X	X	X	X	X	X	X	X	X					X	X	X	
Drepanocladus																												
aduncus (Hedw.) Warnst.		X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	V	X			X	X	X	
v. capillifolius (Warnst.) Wynne						X				X	X	X	X	X	X	X	X	X	X	X								
v. kneiffii (B. S. G.) Mönkem.						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X					L	X	
exannulatus (B. S. G.) Warnst.		X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X							
v. rotata (De Not.) Grout						X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
fluitans (Hedw.) Warnst.		X	X	X			X				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
revolvens (Turn.) Warnst.					X	X	X				X	X	X	X	X	X	X	X	X	X	X							
uncinatus (Hedw.) Warnst.					X	X	X				X	X	X	X	X	X	X	X	X	X	X	X			X			
vernicosus (Lindb.) Warnst.					X	X	X				X	X	X	X	X	X	X	X	X	X	X							







	DISTRICTS (See Map)																									
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
BRACHYTHECIACEAE																										
Brachythecium																										
starkii (Brid.) B. S. G.....			X	X						X	X	X	X	X						X						
velutinum (Hedw.) B. S. G.....				X							X	X	X	X				X	X	X	L					X
Bryhnia																										
angustifolia Warnst.*.....												L														
graminicolor (Brid.) Grout.....			X					X		X	X	X	X	X				X	X		X			X	X	X
novae-angliae (Sull. & Lesq.) Grout.....			X	X		X		X	X	X	X	X	X	X				X	X	X	X		X	X	X	X
Camptothecium																										
nitens (Hedw.) Schimp.....						X		X	X	X	X	X	X	X				X	X			X				
v. falcifolium Ren. <i>in</i> Nichols*.....										X																
Chamberlainia																										
acuminata (Hedw.) Grout.....				X				X		L	X	X	X	X	X			X	X	X	X			X	X	
cyrtophylla (Kindb.) Grout.....															X											
Cirriphyllum																										
boscii (Schwaegr.) Grout.....											X		X	X				X		V	X	X	X	X	X	X
piliterum (Hedw.) Grout.....								X										X								
Eurhynchium																										
pulchellum (Hedw.) Jenn.*.....		X	X	X		X		X	X	X	X	X	X	X	X			X	X	X	X				X	
v. praecox (Hedw.) Jenn.....																										
v. robustum (Röll.) Jenn.....											X										X				X	
v. scabrisetum (Grout) Ketchl.....											L										L			L	L	







	DISTRICTS (See Map)																				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
HYPNACEAE																					
Hypnum—( <i>Continued</i> )																					
<i>v. elatum</i> (Schimp.) Ketchl. ....										X			L								
<i>pallescens</i> (Hedw.) B. S. G. ....			X	X											X						
<i>pratense</i> Koch .....									X	X			X	X	X						
<i>reptile</i> Michx. ....	X	X	X	X		X		X	X	X	X	X	X	X	X						
Platygyrium																					
<i>repens</i> (Brid.) B. S. G. ....	X	X	X	X	X	X					X	X	X		X						
<i>Ptilium</i>																					
<i>crista-castrensis</i> (Hedw.) De Not.* .....	X	X	X						X	X	X	X	X		X						
<i>Pylaisia</i>																					
<i>intricata</i> (Hedw.) B. S. G. ....			X	X		X			X	X	X	X	X	X	X						
<i>polyantha</i> (Hedw.) B. S. G. ....									X	X	L										
<i>selwynii</i> Kindb. ....				X					X	X	X	X	X	X	X						
<i>subdenticulata</i> B. S. G. ....										X	X			X	X						
<i>Taxiphyllum</i>																					
<i>deplanatum</i> (Sull.) Fleisch.* .....						X					X	L		X	X						
<i>geophilum</i> (Aust.) Fleisch.* .....														X	X						
HYLOCOMIACEAE																					
Hylocomium																					
<i>brevirostre</i> (Palis.) B. S. G. ....			X	X	X	X	X	X	X	X	X	X	X	X	X						
<i>pyrenaicum</i> (Spruce) Lindb. ....			X	X						X	X	X	X	X	X						

		DISTRICTS (See Map)																									
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
HYLOCOMIACEAE																											
Hylocomium—( <i>Continued</i> )																											
splendens (Hedw.) B. S. G.		X	X	X				X	X	X	X	X	X	X	X	X	X	X	X	X	X					X	
umbratum (Hedw.) B. S. G.				X	X					X	L							X									
Rhytidiadelphus																											
squarrosus (Hedw.) Warnst.				X				X			X	X	X	X	X	X	X	X	X	X	X						
triqueurus (Hedw.) Warnst.		X	X	X	X		X				X	X	X	X	X	X	X	X	X	X	X			X	L	L	
Rhytidium																											
rugosum (Hedw.) Kindb.		X	X	X	X						X	X	X	X	X	X	X	X	X	X	X						
BUXBAUMIACEAE																											
Buxbaumia																											
aphylla Hedw.		X						X	X	L	X	X	X	X	X	X	X	X	X	X	X					X	X
subcylindrica Grout.			X	X			X	L		L	X							L									
Diphyscium																											
foliosum (Hedw.) Mohr		X	X	X			X	X		X	X				X	X	X	X	X	X	X			X	V	L	X
POLYTRICHACEAE																											
Atrichum																											
angustatum (Brid.) B. S. G.		X	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X	X	X	X
crispum (James) Sull.			X				X				X														X	X	X
undulatum (Hedw.) Palis.		X	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X	X	X	X













# SYNONYMY

PAGE	CHECKLIST NAME	FLORA NAME
11	Sphagnum centrale	Sphagnum magellanicum ( <i>in part</i> )
12	S. warnstorffianum	S. warnstorffii
13	Fissidens debilis	Fissidens Julianus
16	Dicranella schreberiana	Dicranella Schreberi
19	Bryoerythrophyllum recurvirostrum	Didymodon recurvirostris
20	Hymenostylium recurvirostrum	Gymnostomum recurvirostrum
	Tortella humilis	Tortella caespitosa
21	Trichostomum tenuirostre	Trichostomum cylindricum
	Weissia controversa	Weisia viridula
	Grimmia affinis	Grimmia ovalis
	G. apocarpa v. alpicola	G. alpicola
	G. apocarpa v. dupretii	G. Dupreti
	G. apocarpa v. stricta	G. apocarpa v. gracilis
23	Physcomitrium pyriforme	Physcomitrium turbinatum
24	Tetradontium brownianum	Tetraphis Browniana
	Bryum angustirete	Bryum pendulum
25	B. pseudotriquetrum	B. bimum
	B. uliginosum	B. cernuum
	Pohlia delicatula	Pohlia carnea
26	Mnium longirostrum	Mnium rostratum
27	M. serratum	M. marginatum
28	Conostomum tetragonum	Conostomum boreale
30	Ulota hutchinsiae	Ulota americana
31	Climacium americanum v. kindbergii	Climacium Kindbergii
32	Forsstroemia trichomitria	Leptodon trichomitria
33	Myurella sibirica	Myurella Careyana
	Thelia asprella v. lescurii	Thelia lescurii
34	Leskeella nervosa	Leskea nervosa
	Abietinella abietina	Thuidium abietinum
35	Haplocladium microphyllum	Thuidium microphyllum
	H. virginianum	T. virginianum
	Haplohymenium triste	Anomodon tristis
	Raiella scita	Thuidium scitum
38	Hygroamblystegium tenax	Hygroamblystegium irriguum
	Hygrohypnum luridum	Hygrohypnum palustre
	Platyhypnidium rusciforme	Eurhynchium rusciforme
	Platylomella lescurii	Sciaromium lescurii
39	Brachythecium flagellare	Brachythecium plumosum
40	Eurhynchium pulchellum	Eurhynchium strigosum
41	Oxyrhynchium hians	Eurhynchium hians
	Rhynchostegium serrulatum	Eurhynchium serrulatum
	Pleurozium schreberi	Calliergonella Schreberi
43	Ctenidium molluscum	Hypnum molluscum
	Dolicotheca striatella	Plagiothecium striatellum
	Hypnum lindbergii	Hypnum arcuatum
44	Ptilium crista-castrensis	Hypnum crista-castrensis
	Taxiphyllum deplanatum	Plagiothecium deplanatum
	T. geophilum	P. geophilum
47	Mnium pseudopunctatum	Mnium punctatum ( <i>in part</i> )
49	Weissia microstoma	Weisia microstoma

For the following species and variety, not listed in the Moss Flora, the references cited may be consulted:

PAGE	CHECKLIST NAME	REFERENCE
13	<i>Fissidens exilis</i>	The Bryologist 53: 131-136. 1950
23	<i>Funaria flaviseta</i>	Hedwigia 57: 90-93. 1915
31	<i>Climacium acuminatum</i>	Hedwigia 57: 129-130. 1915
40	<i>Bryhnia angustifolia</i>	Hedwigia 57: 115-116. 1915
	<i>Camptothecium nitens</i> , v. <i>falcifolium</i>	Rhodora 15: 12. 1913

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